






**POLYHEDRAL OLIGOMERIC-SILSESQUIOXANES, -SILICATES AND -
SILOXANES BEARING RING-STRAINED OLEFINIC FUNCTIONALITIES**

Patent number: WO0146295
Publication date: 2001-06-28
Inventor: LICHTENHAN JOSEPH D; SCHWAB JOSEPH D; AN
YI-ZONG; REINERTH WILLIAM; FEHER FRANK J
Applicant: HYBRID PLASTICS [US]
Classification:
- international: C08G77/02; C08G77/04; C08G77/06; C08G77/20;
C07F7/08
- european: C07F7/08C14B4; C07F7/08D4K2; C07F7/08D4K4B2;
C07F7/18C9A; C07F7/18C9B; C07F7/21; C07F11/00B;
C08G77/20
Application number: WO2000US34873 20001222
Priority number(s): US19990171888P 19991223; US20000747762
20001221

Cited documents:

 US3390163
 US4381396
 US4657965
 US5008360
 US5034490
more >>

Abstract of WO0146295

Processes have been developed for the manufacture of polyhedral oligomeric silsesquioxanes (POSS), polysilsesquioxanes, polyhedral oligomeric silicates (POS), and siloxane molecules bearing reactive ringstrained olefins (e.g. norbornenyl, cyclopentenyl, etc. functionalities). The manufacturing processes employ the silation of siloxides with silane reagents containing at least one reactive ring-strained cyclic olefin functionality or hydrosilation reactions between silanes containing at least one silicon-hydrogen bond with ring-strained cyclic olefin reagents. Each of the processes result in a new chemical species bearing one or more ring strained olefins that can undergo polymerization, grafting, or other desirable chemical reactions to form polymeric products.

Data supplied from the **esp@cenet** database - Worldwide